**Chemistry Unit Outline 2016**

**Make a chemistry unit study sheet.** This study sheet will help you do well on this unit test. Marks will be assigned for completing this study sheet.

Print or write neatly. Underline or highlight key terms being defined. Use lots of well labelled diagrams. Use lined paper. This list is not guaranteed to be complete and anything from class could be on the test. See [**http://rosedalegrade9chemistry.wikispaces.com/home**](http://rosedalegrade9chemistry.wikispaces.com/home)for any missing lecture notes or worksheets.

ELEMENTS AND COMPOUNDS

* **particle theory**, define **atoms**, **molecules** and **compounds**
* classify matter; pure substances (**elements** and **compounds**), mixtures (**heterogeneous mixtures** and **homogeneous/solutions mixtures**)
* draw the **bonding (hook) diagrams** for various molecules and compounds, and name them

THE ATOM

* name each atomic discovery made by **Dalton, Thompson, Rutherford, Bohr, Nagaoka**
* define and count **subatomic particles: protons, electrons, neutrons**
* explain**: nucleus, atomic number, atomic mass, standard atomic notation**
* **count** and name the atoms in a molecule or compound, give examples
* give the number of **valence electrons** and the **bonding (combining) capacity** of atoms

BOHR – RUTHERFORD DIAGRAMS

* **draw Bohr – Rutherford diagrams** any **neutral atom , do 2 examples**

THE PERIODIC TABLE

* state **Mendeleev’s periodic law**
* define a **group**, and a **period**
* on a periodic table be able to identify the following: **noble gases, alkali metals, halogens, metals, non-metals, metalloids**, and identify the **properties of each group**

MATTER AND CHANGE

- Physical properties, define and be able to give examples of 12 **physical** **properties**

- name the **three chemical properties and chemical changes**

- Use physical properties to describe substances as done in lab

- know the **5 clues to identify a chemical change**

**When your study sheet is complete you can use it to complete the entire review package!**

**Chemistry Unit Test Format -** approximate breakdown, about 60 - 65 marks

Multiple Choice and/or True False questions - 10 marks

Matching - 15 marks

Diagrams - 15 marks

Short Answer - 20 marks

A periodic table will be attached to your test.